



Interactive Flat Panel Display

✓ *Note:*

- *All the pictures in this manual are for reference only, subject to our available products.*

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Safety Warning

Safety Warning

Before operating, please read this manual thoroughly, and keep it for future reference. Image shown in this manual is indicative only. There may be differences between the pictures and the actual product, please prevail in kind.

Placement

Do not put heavy objects on top of the unit.

Do not put the unit near appliances that generate magnetic fields.

Do not expose the unit to direct sunlight and other sources of heat.

Do not place the unit on an unstable cart, stand, tripod, bracket, table, or shelf.

Do not put any liquid near or on the unit, make sure do not spill any liquid inside the unit.

Power Supply

Please keep power cable from physical or mechanical damage.

Please check and ensure AC source is connected with the ground.

This power cable comes with the device exclusively for this device only.

Please unplug power supply when the weather is thunder-storm or lightning.

Check that the unit's operating voltage is identical with your local power supply.

Please use the original power cable from the accessory bag, don't modify or lengthen it.

Please unplug power supply, when there is nobody home or the unit will be in idle for a long time.

LED Screen

Unplug the power cable before cleaning.

Clean the screen with a soft, dustless and dry cloth.

For deep clean, please contact an authorized service center.

Never use water or the spray type detergent to clean the unit.

Never use any other hard or sharp object to replace the touch pen.

Better for the panel lifetime and the display performance, do not display high brightness image for long time.

Temperature

Normal operating temperature is 0 ~ 40°C .

Do not place the unit near or over a radiator or a heater.

If your unit is suddenly moved from a cold to a warm place, please unplug the power cable and do not turn it on at least 2 hours, making sure the moisture inside the unit is all evaporated.

Humidity

Do not expose the unit in rain, or place in high humidity area.

Please make sure indoor environment is dry and cool. Normal operating humidity is 10%~90%RH.

Ventilation

Please put the unit in a well-ventilated place, so the heating can be released easily.

Ensure that the unit has enough space for ventilation. Space requirement: left, right and back >10cm, top > 20cm.

Earphone

Before using earphone, please turn down the volume in advance.

Using the earphone to listen loud sound for a long time might affect the hearing.

Safety Guide

Standby

It will enter standby mode but not turn off the unit after press the standby key.

Battery

Please make sure the battery gets proper disposal or recycle after using.

Please keep the battery away from kids and don't throw the battery into fire.

Notes for Cleaning

There are vents on back cover, please do not use any liquid or spray directly during cleaning.

Power Switch Status Signs

"I" means power on, "O" means power off.

Notes for Maintenance

This machine can only be maintained by certified engineer.

FCC Statement

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

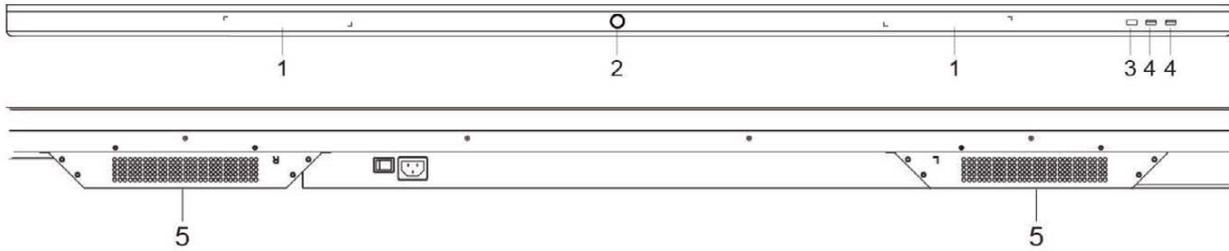
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Part names and functions

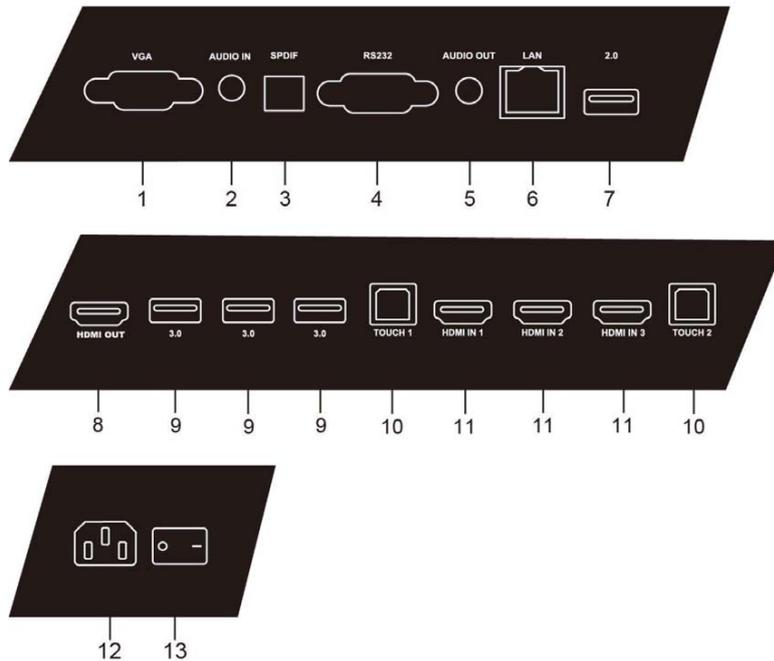
Front & Bottom



- | | |
|---|---|
| <p>1. Magnetic zone
Area for placing the absorptive magnetic pen.</p> | <p>3. Remote control receiver
Receive the remote signal.</p> |
| <p>2. POWER
(1) When press at least 2 seconds, it will into shutdown process.
(2) When press 1 seconds, it will be standby mode.</p> | <p>4. USB
USB interface of Android system</p> |
| | <p>5. Bottom loudspeaker
Amplify audio.</p> |

Part names and functions

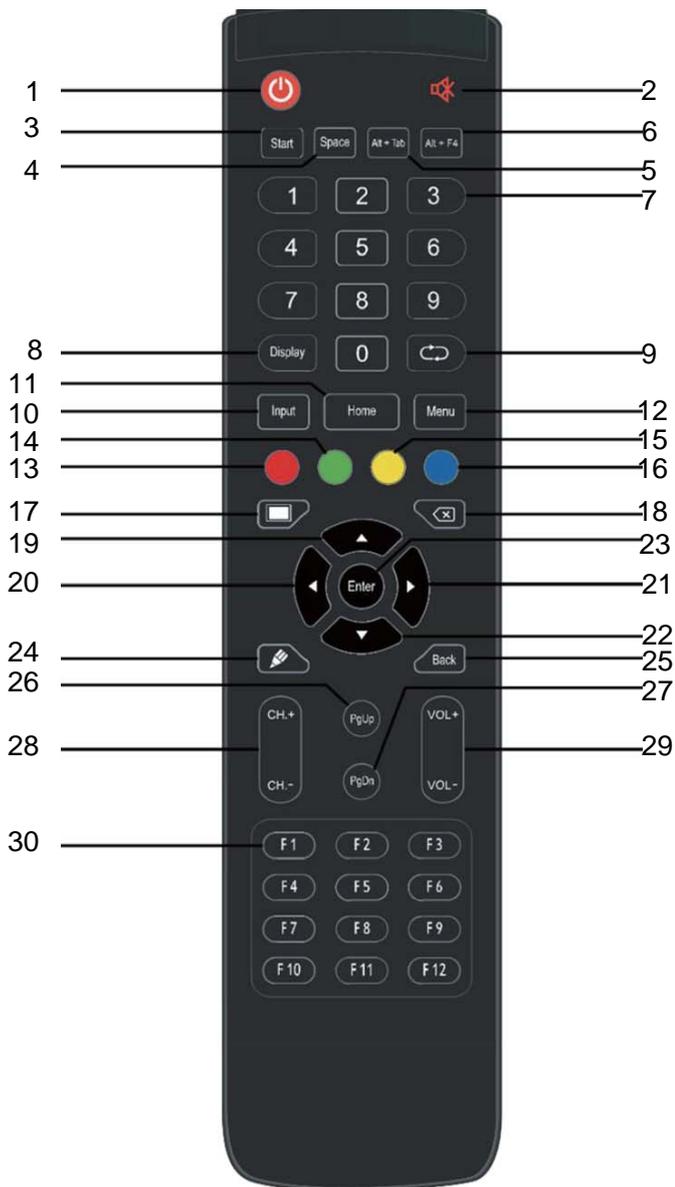
Terminal Interface



- VGA**
External computer image input.
- AUDIO IN**
External computer audio input.
- SPDIF**
Carry multichannel sound via optical signals.
- RS232**
Serial interface, used for mutual transfer of data between devices.
- AUDIO OUT**
Audio output to the external speaker.
- LAN**
Connect RJ45 terminals.
- USB 2.0**
USB 2.0, connect USB devices such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc.
- HDMI OUT**
Connect to the devices with HDMI input function.
- USB 3.0**
USB 3.0, connect USB devices such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc.
- TOUCH**
Touch signal output to the external computer.
- HDMI IN**
High-definition multimedia interface signal input, connect to devices with HDMI output interface (personal computer with HDMI output, set-top box, or another video device).
- AC IN**
AC power input, connect AC power supply.
- AC SWITCH**
To open or shut down AC power supply. "I" means power on, "O" means power off.

Part names and functions

Remote Control



1. POWER

Power on/off.

2. Mute

Enter or exit mute mode.

3. Start

PC's Windows key.

4. Space

PC's Space key.

5. Alt+Tab

PC's Alt+Tab key.

6. Alt+F4

PC's Alt+F4 key.

7. Numeric keys

Numeric input keys.

8. Display

Display channel information

9. (NONE)

10. Input

Pop up TouchMenu-General Setting.

11. Home

Return to android system main screen key.

12. Menu

Pop up TouchMenu-Audio.

13. Red

Enable or disable Front keyboard and Touch.

14. Green

Enable or disable Front keyboard.

15. Yellow

Enable or disable Touch.

16. Blue

Pop out or close the screen freezing tools.

17. Blank

Turn off or turn on the screen backlight.

18. Backspace

PC's Backspace key

19. ▲

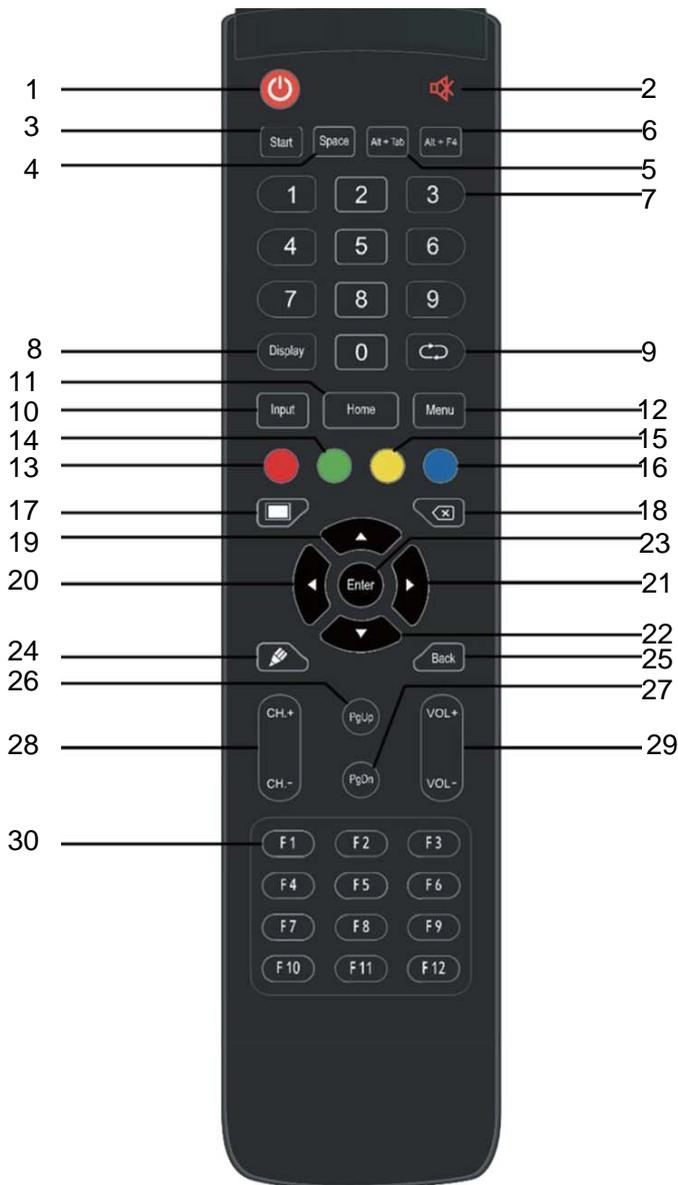
Press to scroll up

20. ◀

Press to scroll left.

Part names and functions

Remote Control



- 25. **Back**
Return to the last operating interface.
- 26. **PgUp**
Page Up
- 27. **PgDn**
Page Down.
- 28. **(NONE)**
- 29. **VOL+/VOL-**
Increase/reduce the volume
- 30. **F1-F12**
PC's F1 - F12 function keys

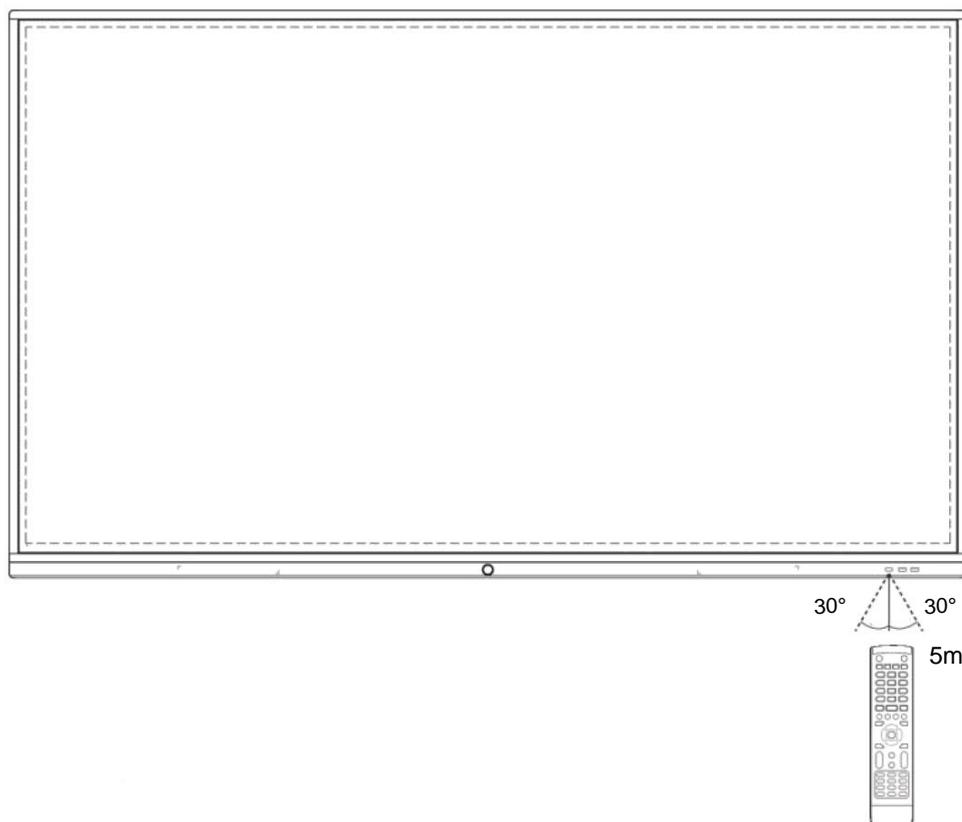
- 21. **▶**
PC's Backspace key
- 22. **▼**
Press to scroll right.
- 23. **Enter**
Confirmation key, press it to confirm selection state
- 24. **Note**
Quickly start Note software.

Part names and functions

Install remote control batteries

- 1) Open back cover of battery component on the back of remote control.
- 2) Install AAA type battery according to the corresponding electrode, make sure battery positive and negative pole are correct ("+"to"+"", "-" to "-"), please do not mix using old and new batteries.
- 3) After battery is installed, close the back cover of battery components, and make the following clip buckled to the bottom.

Operating range



Remote control can work normally within the range of 8 meters distance, 30 degrees left and right from the remote-control receiver; in order to protect environment, please dispose waste battery into recycling box.

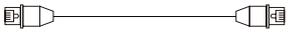
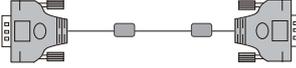
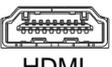


To ensure safe operation, please observe the following precautions:

- Use two (2) AAA or LR3 type alkaline batteries.
- Always replace batteries in sets.
- Do not use a new battery with a used battery.
- Avoid contact with water or liquid matter.
- Do not expose the remote control to moisture or heat.
- Do not drop the remote control.
- If the battery has leaked in the remote control, carefully wipe the case clean and install new batteries.
- Risk of explosion if two batteries are replaced by an incorrect type.
- Dispose of used batteries according to the instructions on the battery or local regulations or guides.

Connection and Setting

External Computer and Touch Connection

TOUCH	 Touch	USB cable		 Computer
AUDIO IN	 AUDIO IN	Audio cable		
VGA	 VGA	VGA cable		
or				
TOUCH	 Touch	USB cable		
HDMI	 HDMI	HDMI cable		

- 1) Use VGA cable to connect to VGA output port of external computer, and meanwhile use headphone audio cable to connect to external computer audio output interface.
(Or use HDMI cable to connect to HDMI output port of external computer).
- 2) Use USB cable to connect to external computer USB port.
- 3) After cable connection, plug in power cord, and switch power on.
- 4) Start external computer.
- 5) Press POWER key, and the equipment is power on.
- 6) Press the INPUT key to switch to VGA/HDMI channel



*External computer input, equipment's best resolution is 3840*2160.*

Recommended computer configuration:

1GB Available Hard Drive

2.0GHz Processor, 1GB Memory

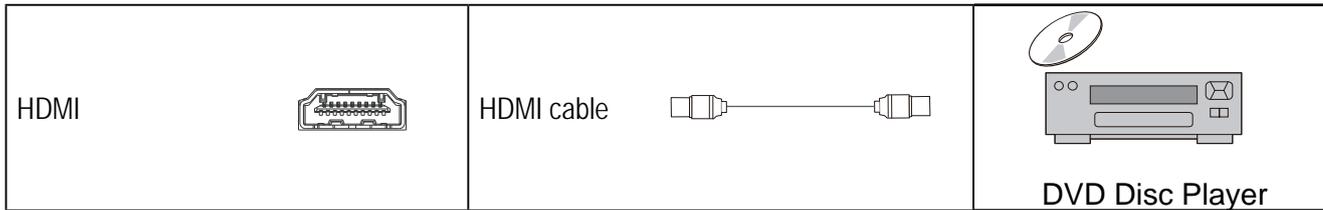
More than 256 color display cards

VGA OUT / HDMI OUT, Audio-OUT, USB Interface

Support Resolution 800*600,1024*768,1920*1080,3840*2160

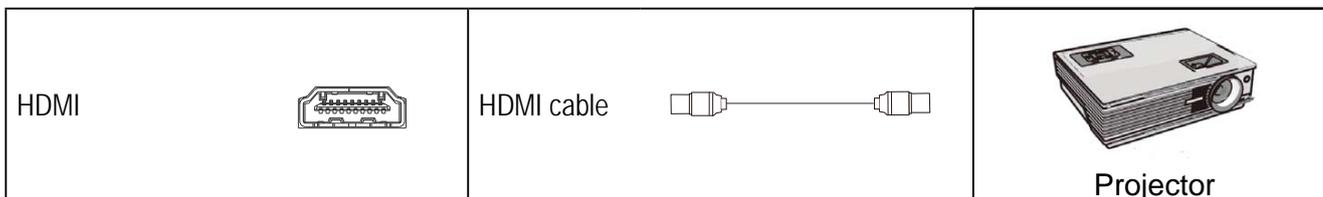
Connection and Setting

Audio and Video Equipment



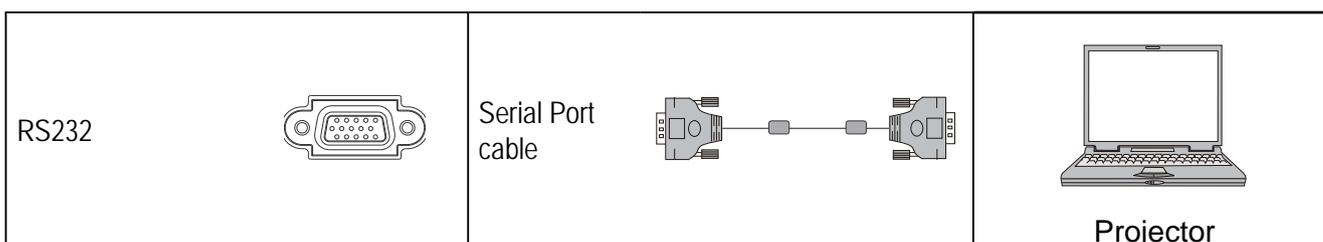
- 1) Use HDMI cable to connect audio and video equipment with HDMI output.
- 2) After cable connection, plug in power cord, and switch power on.
- 3) Press POWER to turn equipment on.
- 4) Press INPUT key to switch to HDMI port.

Audio and Video Equipment



- 1) Use HDMI cable to connect audio and video equipment with HDMI input.
- 2) After cable connection, plug in power cord, and switch power on
- 3) Press POWER to turn equipment on

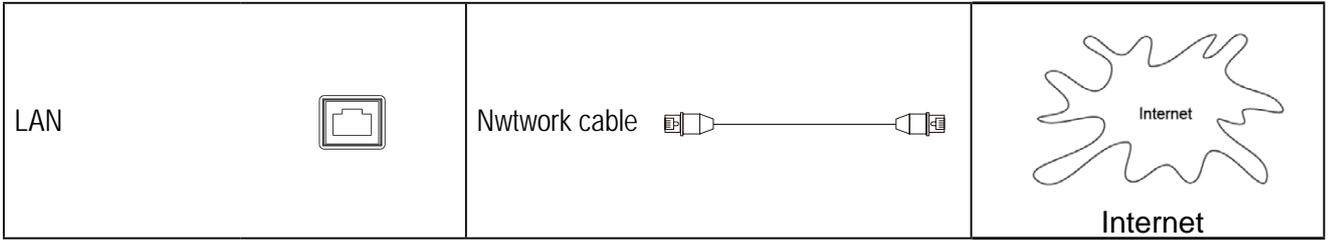
RS232 Connection



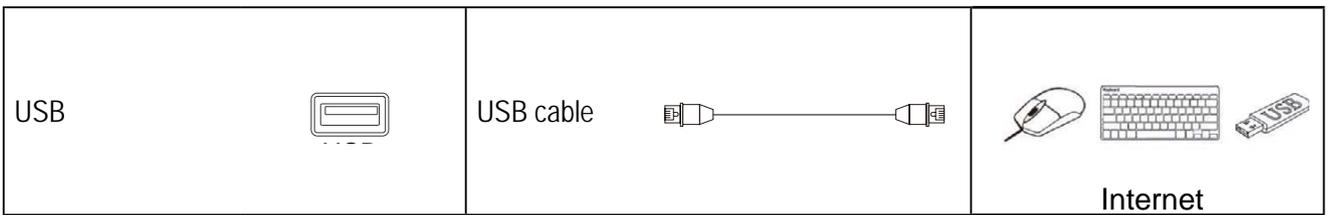
After using serial port cable to connect central control equipment and machine, certain function of the machine can be controlled via central control equipment, such as: machine ON/OFF, and adjustment of sound volume, etc.

Connection and Setting

LAN Connection



USB Connection



Menu Operation

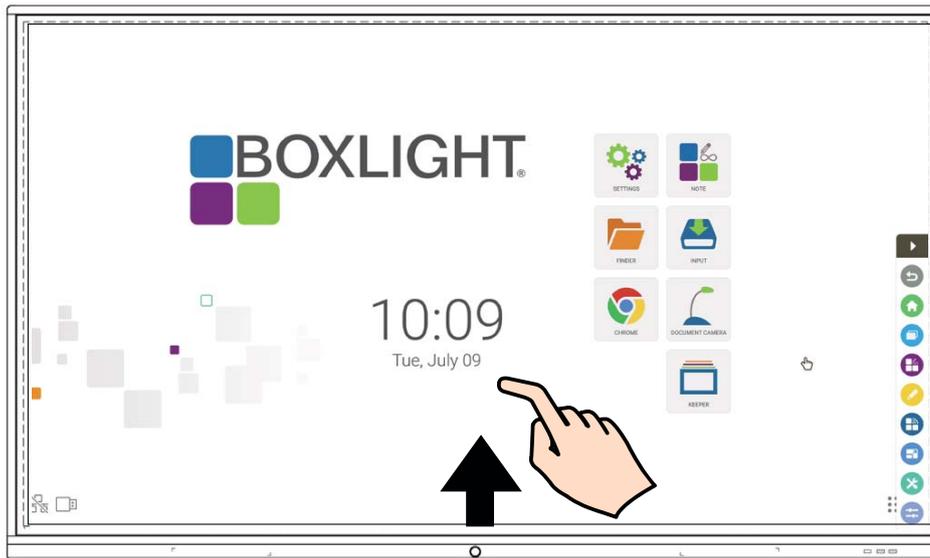
Menu Operation

Touch Menu Operation

Call up Method

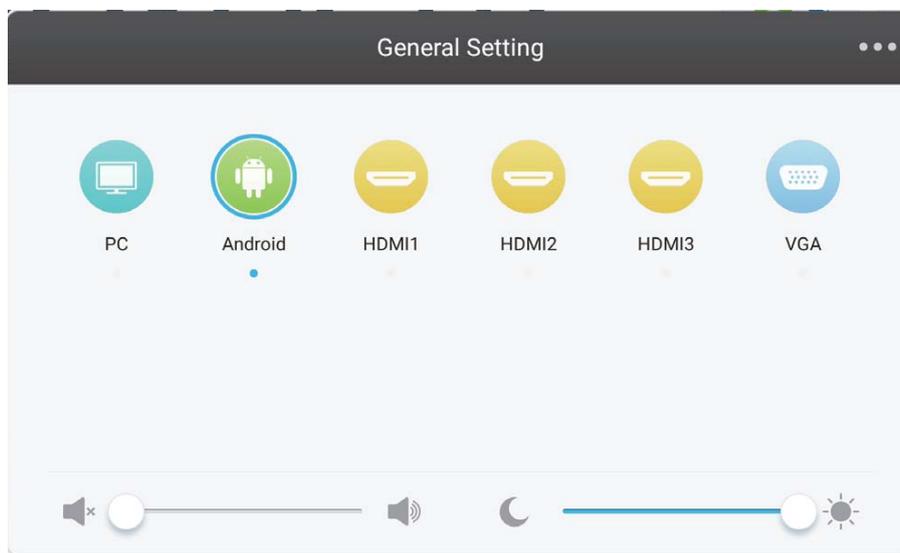
Take middle point position on the bottom of display screen as starting point, use touch pen to drag towards screen center position to call up touch menu, as shown below.

It can also call up by side toolbar with  or .



Setting Menu

- General Setting



- Press INPUT button on remote control or via touch A method to call up General Setting menu.
- Press ▲/▼/◀/▶ button on remote control to select the channel you need.
- Press the Enter button on remote control or directly click with touch pen to confirm selected input channel.
- Press return key on remote control or click blank area outside menu with touch pen to exit menu.

Note: PC channel will only display when the equipment connects the built-in computer.

Menu Operation

- Detail Setting Menu

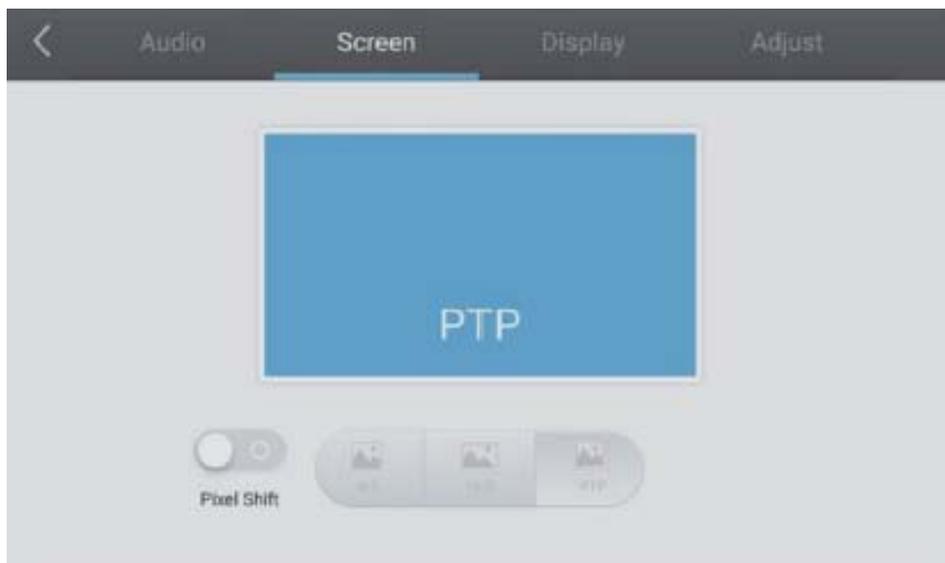
Press Menu on remote control or click the icon  on General Setting menu with touch pen to call up detail setting menu. Detail setting menu includes Audio, Screen, Display and Adjust.

<Audio>



- Press ► button on remote control to select Audio setting menu.
- Press ▲/▼/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press Enter on remote control to enter adjustment mode, and press ◀/▶ button or directly click with touch pen to adjust each option. Press Enter/Back to exit adjustment.
- Press Mute on remote control or directly click with touch pen to open or close mute state.
- Press Back on remote control or click blank area outside menu with touch pen to exit menu.

<Screen>



- Press ► button on remote control to select Screen setting menu.
- Press ▲/▼/◀/▶ on remote control or directly click with touch pen to select the option.
- Press Enter on remote control or directly click with touch pen to enter the selected mode.
- Press Back on remote control or click blank area outside menu with touch pen to exit menu.

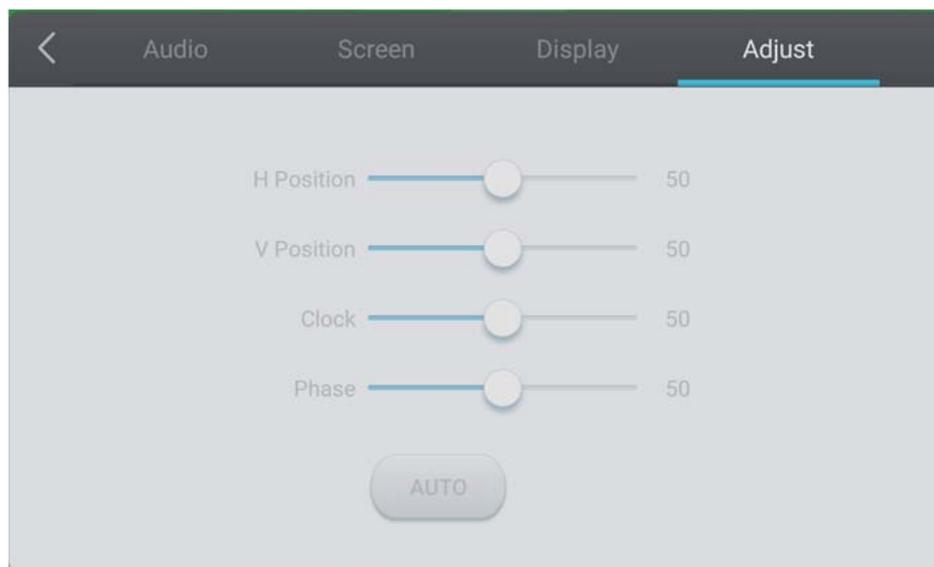
Menu Operation

<Display>



- Press ► button on remote control to select Display setting menu.
- Press ▲/▼/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press Enter on remote control to enter adjustment mode, and press button ◀/▶ or directly click with touch pen to adjust each option. Press Enter/Back to exit adjustment.
- Press Back on remote control or click blank area outside menu with touch pen to exit menu.

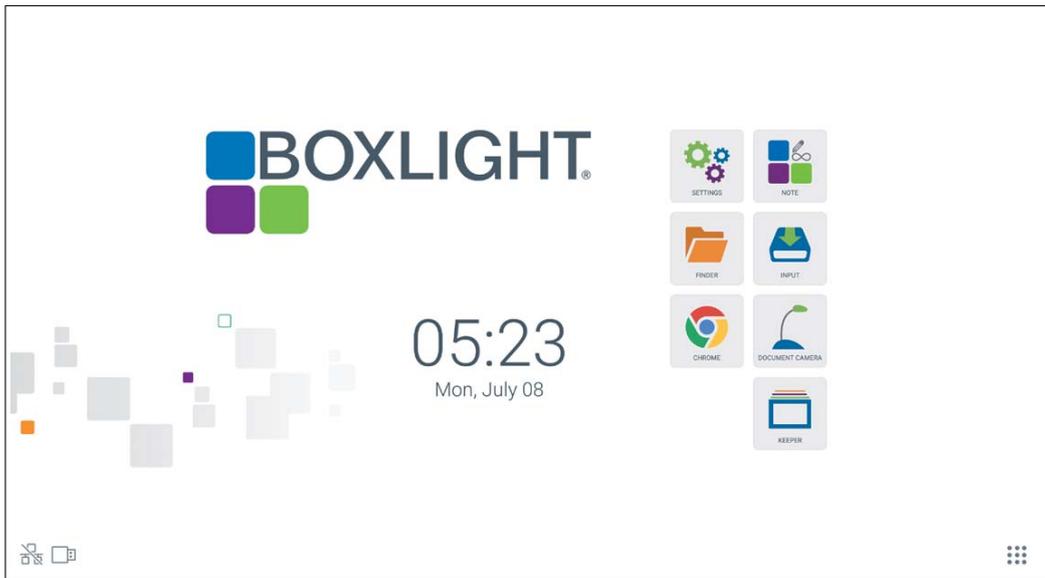
<Adjust>



- Press ► button on remote control to select Adjust setting menu.
- Press ▲/▼/◀/▶ button on remote control or directly click with touch pen to select the option.
- Press Enter on remote control to enter adjustment mode, and press button ◀/▶ or directly click with touch pen to adjust each option. Press Enter/Back to exit adjustment. You can also click the “Auto” icon to adjust automatically.
- Press Back on remote control or click blank area outside menu with touch pen to exit menu.

Android Function

Home



Timer

Click the **05:23** area on the center will open the “Settings → Date&Time” page.
Mon, July 08

Note

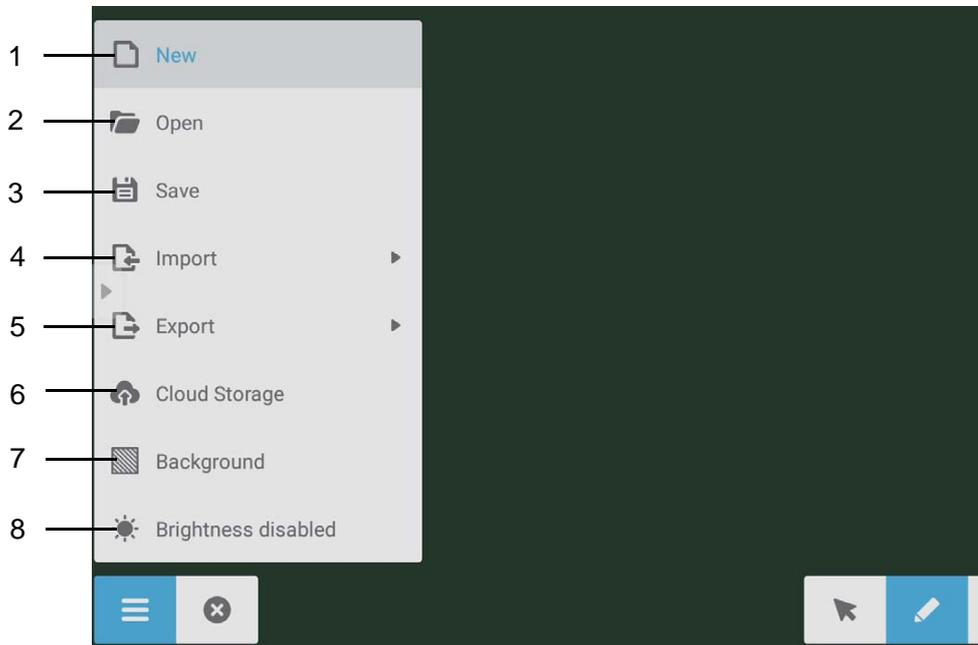
Click the  to open the Note, as shown as below.



Android Function

- Left Bottom Corner Menu

Click  to pop out the menu as shown as below. The menu provides background switch and saving options for users.



1. **NEW**

To create whiteboard file.

2. **Open**

To pop out the file selection window. You can open the local .enb or .iwb format file.

3. **Save**

To save the current document to the file browsing in .enb format.

4. **Import**

To import the image, PDF, or SVG, to current document.

5. **Export**

To export the current whiteboard courseware in IMG,PDF,SVG or IWB format.

6. **Cloud Storage**

To export and upload the current file to Google Drive and OneDrive.

7. **BackGround**

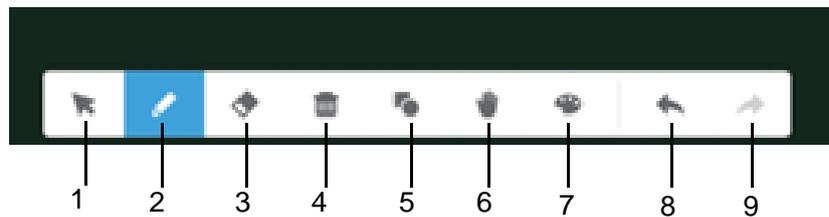
To switch the current page background color, which is black by default. Click any color to switch the page background color to the color you select. You also can change the background by texture with color, texture with image, or custom image.

8. **BrightnessDisable**

To activate the automatic brightness adjustment, which is disabled by default.

Android Function

- Bottom Menu

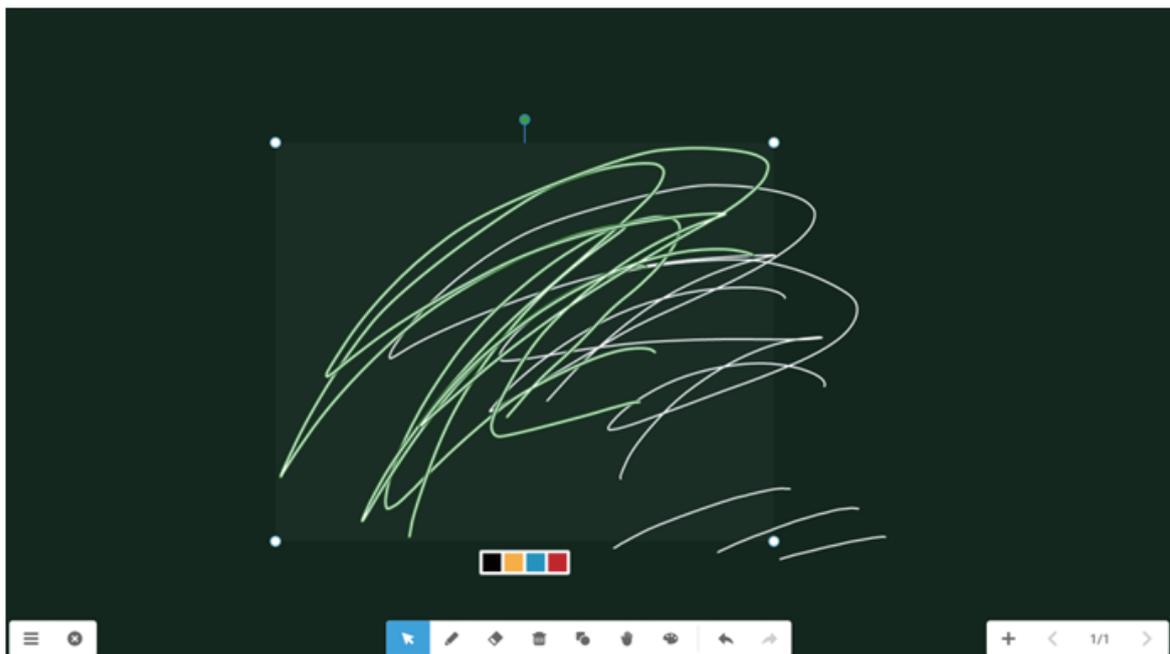


1. **Select**
2. **Pen**
3. **Eraser**
4. **Delete**
5. **Shapes**

6. **Roaming**
7. **Drawing Board**
8. **Withdrawing**
9. **Recover**

1. Select

Click  button to perform selection operation on the objects of the page. By drawing any close figure or clicking the object on the interface, you can move or zoom in or out the object you select, as shown as below:



- (1) Move. Select by circling and drag the selected object to move the current object to any location.
- (2) Zoom in or out.
 - a. Select by circling and operate the selected object by two points to zoom in or out the current object, and change the color of the current object to black, yellow, blue or red.
 - b. Single scale by the four points
 - c. Rotate by the green point
 - d. Operate the page by two points to globally zoom in or out the current page.

Android Function

2. Pen

Click the pen button to pop out the pen setting window. After setting the handwriting size and color, the handwriting will appear on the place you need to write when you slide.



- (1) Pen. Including pencil and a row of brushes. Pencil is set by default.
- (2) Handwriting size. Slide the handwriting size slide bar to change the handwriting size.
- (3) Handwriting color. Click the color of the color disk on the right side to change the handwriting color as required.

3. Eraser

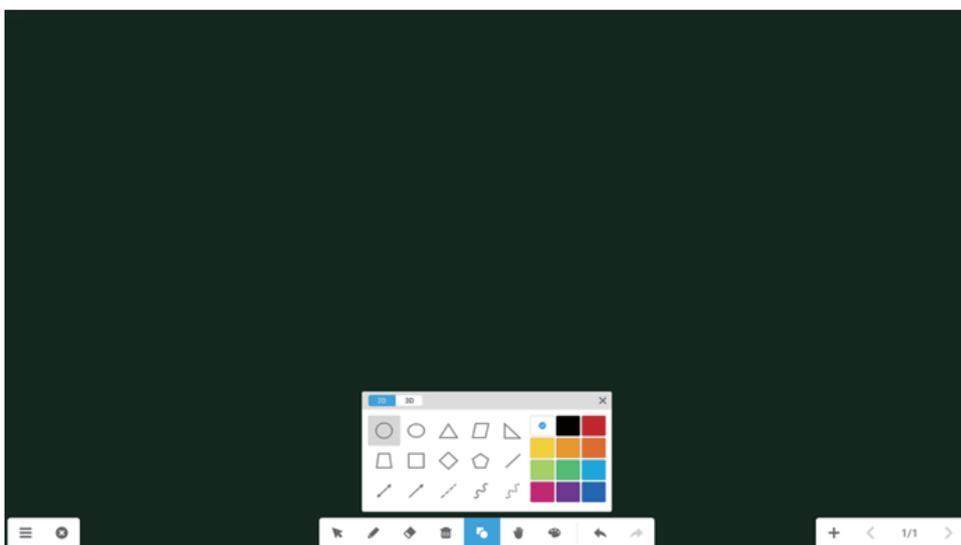
To select the eraser. Select by circling the object you need to erase.

4. Delete

To clean the whole screen.

5. Shapes

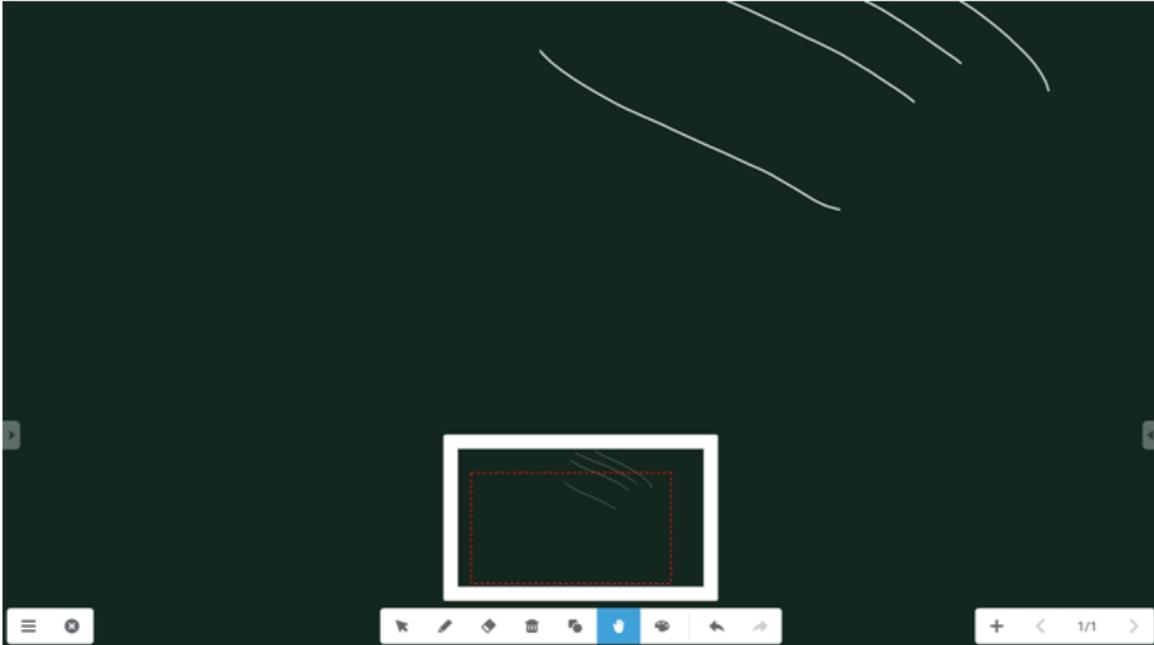
Click the button to pop out the 3d shape window by default. You can click the 2d or 3d button to change the shape type.



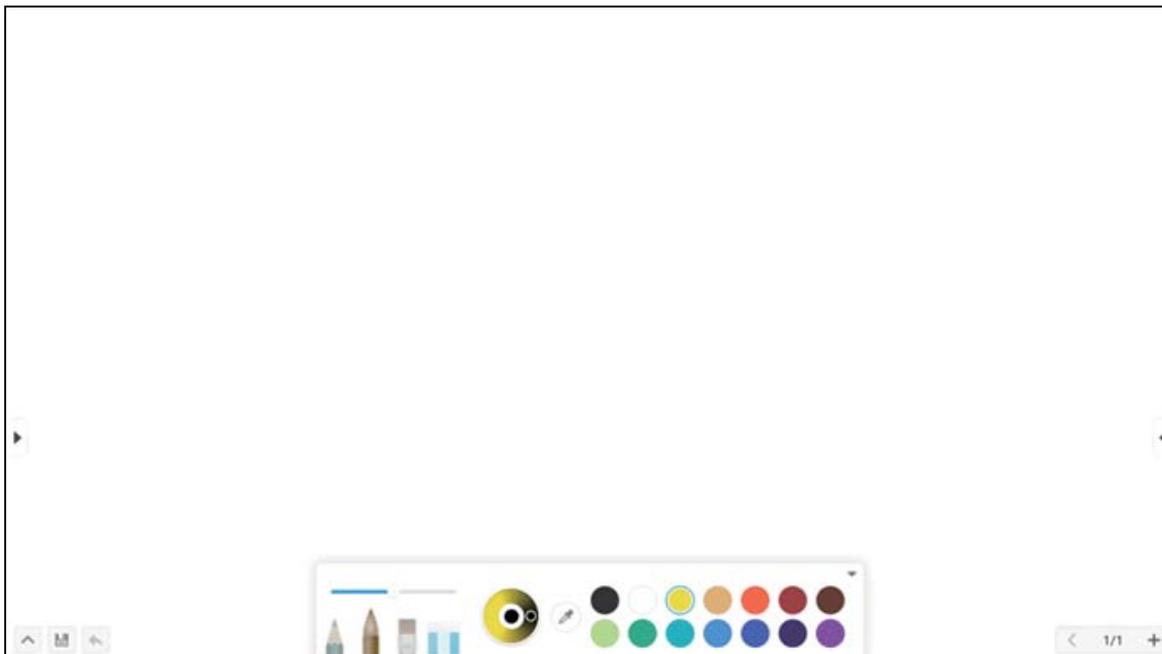
Android Function

6. Roaming

- (1) Click the 🖐️ button, that switch to room state,
 - (1-1) Operate the page by two points to globally zoom in or out the current page.
 - (1-2) Operate the page by one point to globally move the object int current page.
- (2) When in room state, Click the 🖐️ button, shown the room setting.you can find all the object in current page by the red border.

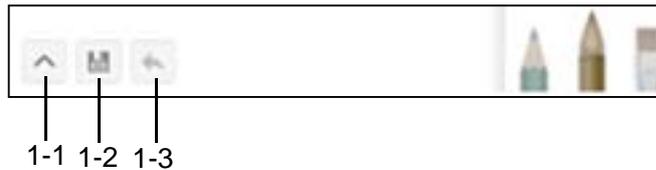


7. Drawing Board



Android Function

(1) Left Bottom Corner Corner



(1-1) Exit

This button  will make this program run in the background.
If EasiNote is requested to exit, this program will be killed without saving anything.

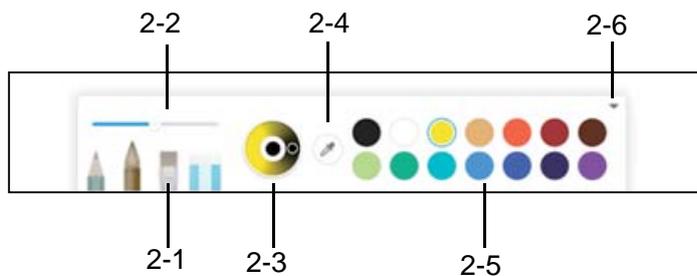
(1-2) Save

This button  will export all pages to the folder you select.

(1-3) Redo

This button  revert the last stroke commit.
When all touch point is released, all stroke created after the same condition constitute a commit.

(2) Bottom Menu



(2-1) Pen Group

The buttons on this panel allow you to select which 'pen' you will draw on the board.

(2-2) Pen Stroke Slider

This slider allow you to adjust the stroke width of the 'pen' you selected.
Each 'pen' has its own scale factor. For example, with the same slider level, 'pencil' and 'eraser' don't share the same stroke width.

(2-3) Palette

The palette contains 3 parts:

- the center colored circle representing the current stroke color;
- the gradient colored ring based on the color you picked or selected;
- the indicator that can be dragged to select color on the colored ring;

(2-4) Color Picker

It will trigger a sampler that can be dragged to pick the color on the board.

(2-5) Predefined Colors

When these circular colored buttons are clicked, the corresponding stroke colors are selected.

(2-6) Hide / Show Tool box

This button  allow you to hide the tool box You can show the tool box again after clicking this button  .

Android Function

(3) Right Bottom Corner Menu



(3-1) Page Navigation



The backward and forward button help you navigate the pages you drew.

(3-2) New Page



This button only appear when you have navigated to the last page.
New page is only allowed to be inserted after the last page.

8. Withdrawing

Click the  withdrawing button to withdraw the previous operation.

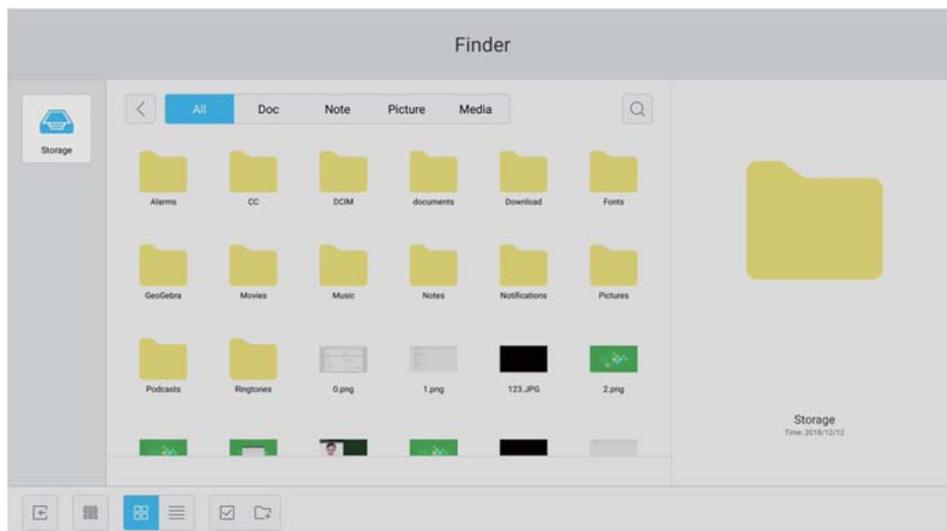
9. Recover

Click  to recover the previous withdrawing operation. This button is in hidden status before any withdrawing operation is done.

Finder



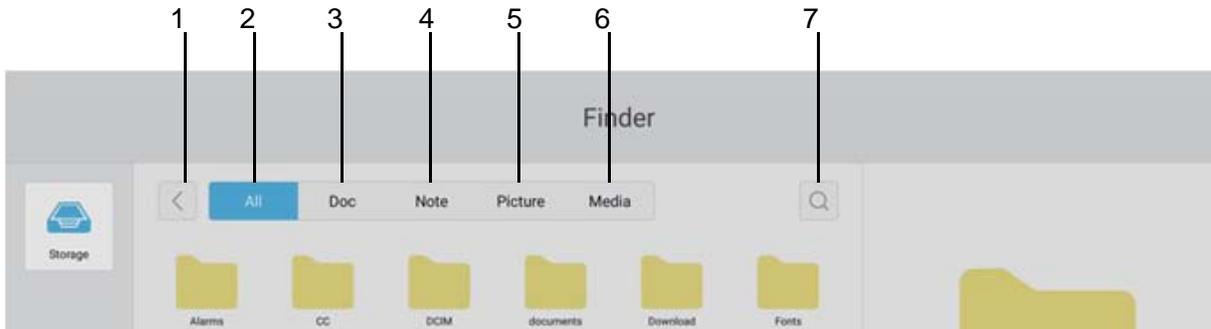
Click the  pop out the file browsing as shown. It can browse the files saved in the system such as document, whiteboard writing, video, picture, and audio. In addition, it can automatically identify external USB device, browse files according to category, search for the files, etc.



Users can browse resources stored in the local storage according to category, including document, whiteboard writing (pages saved by the whiteboard and quick screenshot), video, picture, and audio.

Android Function

- Function Key



1. **Back**

To return to the previous page.

2. **All**

When accessing internal storage module, all resources are displayed by default.

3. **Doc**

To browse PPT, Word, Excel, PDF documents.

4. **Note**

To browse files and quick screenshot saved by the whiteboard.

5. **Picture**

To browse the stored pictures, formats like .jpg, .jpeg, .png, .bmp, and .gif are supported.

6. **Media**

Such as .avi, .asf, .wmv, .m2t, .mp4, .vob, .mkv, .divx, .xvid, .mov, .ssif, .mpeg, .mpe, and .m3u are supported.

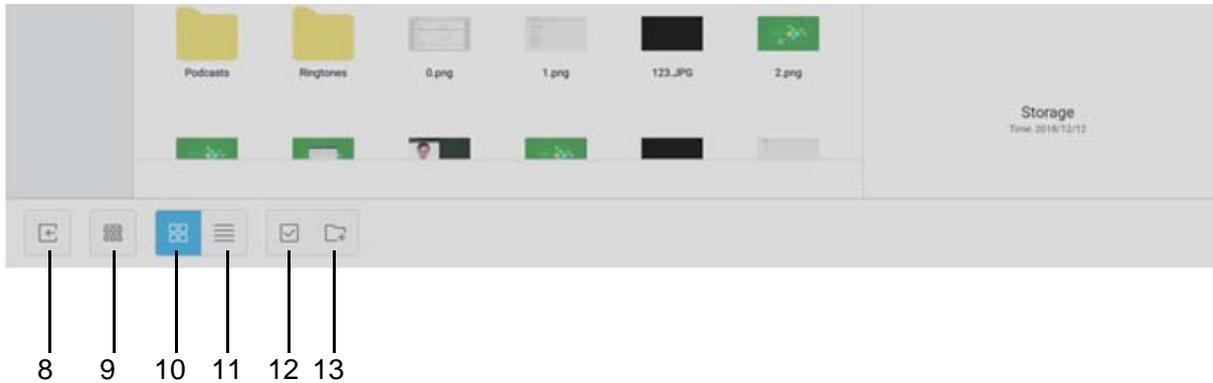
7. **Search**

To enter the resource name that you want to search.

8. **BrightnessDisable**

To activate the automatic brightness adjustment, which is disabled by default.

Android Function



8. Exit

To exit the file browsing, and return to the homepage.

9. Order

To pop out the menu as shown in picture. You can order the resources, including ordering according to the name, type, o size, and time. Resources are ordered according to name by default.

10. Icon Display

To display the resources in the form of icon. The resources are displayed in the form of icon by default.

11. Form Display

To switch to display the resources in the form of detailed information.

12. Select

Selecting box pops out on the left upper corner of the resources. Then you can select resources as required.

13. New Folder

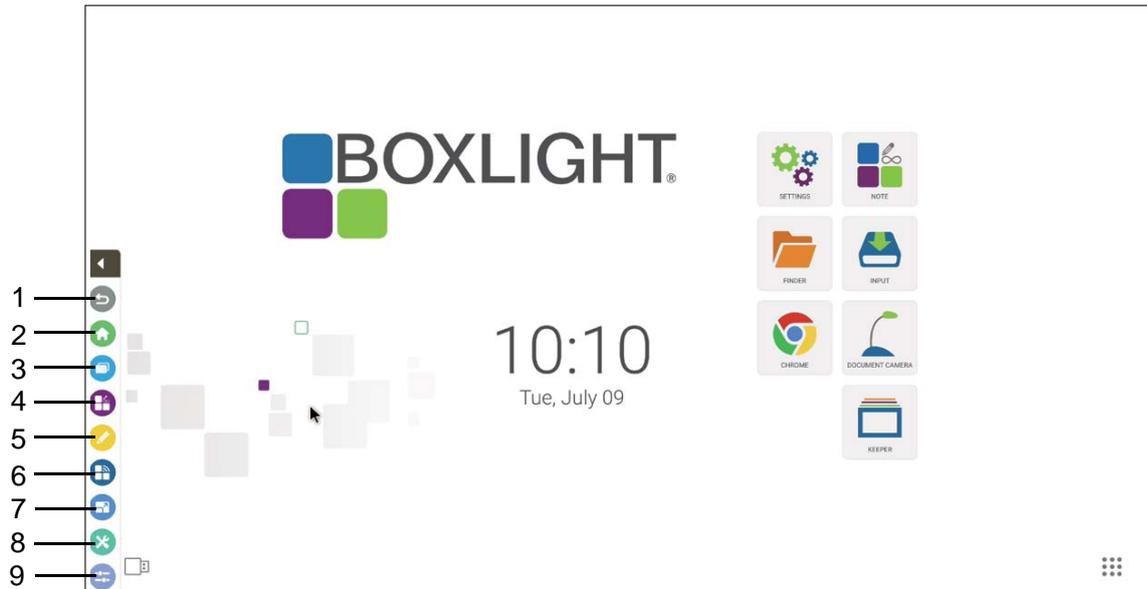
To create new folders under the current directory.

Android Function

Side Toolbar

Click the button with  or  on Side Toolbar of both sides to call it out. For example, below picture is shown how to call out the Side Toolbar on the right side. The functions of the Side Toolbar include the Back key, Home key, recent tasks, quick whiteboard, annotation tools, screen freezing, small tools and touch menu.

A valid path can be set for the Side Toolbar on the Settings-Other Settings.

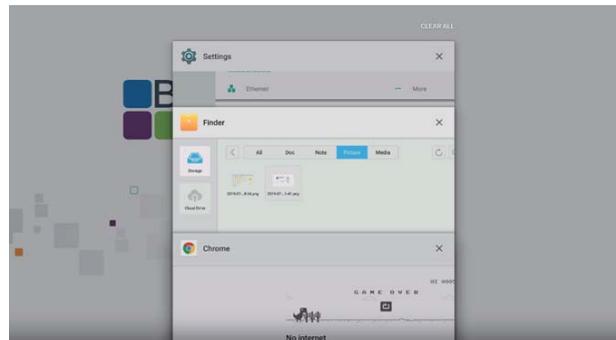


1. **Back** 
To return to the previous page.

2. **Home** 
To return to the desktop.

3. **Recent Tasks** 
To pop out the window and display the recently operated tasks.
You can delete all the progresses by one key "CLEAR ALL" or delete progresses by dragging left or right.
Click one of the processes to enter the process.

The recently operated tasks display rules:
(1) Current progress does not display.
(2) The system progresses does not display, except for Browser, Finder, Keeper, Note, Settings, Visualizer, WPS Office.



Android Function

4. Note

To browse files and quick screenshot saved by the whiteboard.

5. Annotation Tools

To enter annotation Tools, it is a standalone app. If Annotation Tools has been launched, the button will be disabled like , touch the button will be unresponsive. When start the app, it will show an annotation toolbar in screen, and if you click the button in the left Side Toolbar, it will show in the screen left, or in the right. The annotation toolbar as below: 

Except the annotation toolbar, it will also capture the screen and covered the origin content. You can annotation in the content use pencil and highlighter, and erase the annotations by gesture eraser. Gesture eraser can be aroused by palm or back of the hand touch the screen. The annotations and gesture eraser like these.

- Pencil Color : Click to switch the pencil color with red, black, blue and green.
- Highlighter : Click the switch to highlighter colors with yellow, orange, blue and green.

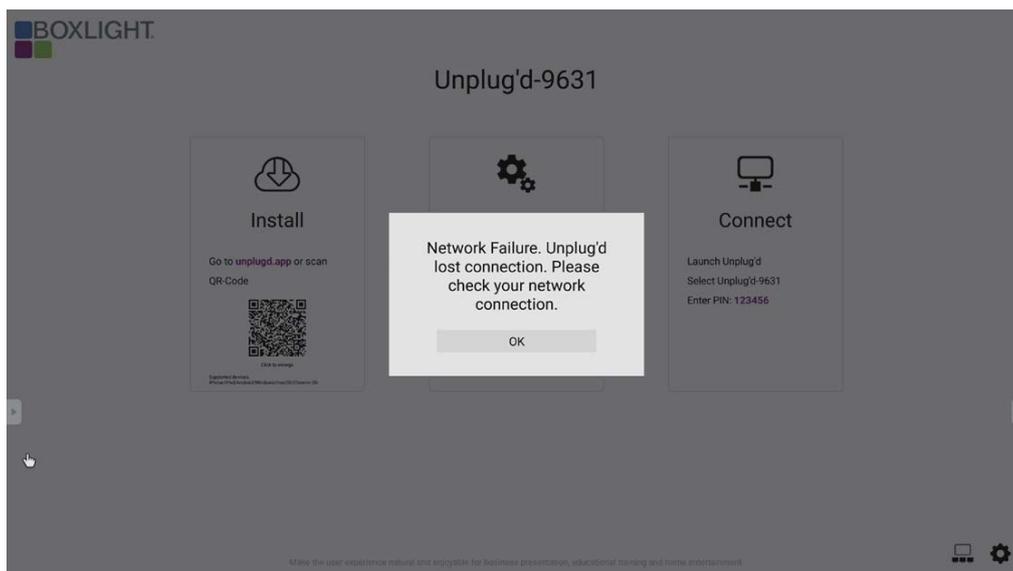
The highlighter stroke width is three times than pencil.

- Clean : Clean the annotations in the screen, and screen will be as clean as just started.
- Save : Save current annotations and screen content to picture in the storage. It will show a dialog when save successfully, click close button to dismiss the dialog, and open button to jump to the Finder which locates in the save picture, or you can open Finder and enter /Notes/Mark folder directly to find the save pictures.
- Exit : Exit the Annotation Tools, and the annotations will be ignored.

6. Unplug'd

** Before use, it needs to buy the Boxlight licence. If you don't have, please connect with your dealer.*

6.1 LAN / Wifi Connect: if the LAN / Wifi didn't connect, it will be shown as below. Please make sure the Network is connected.



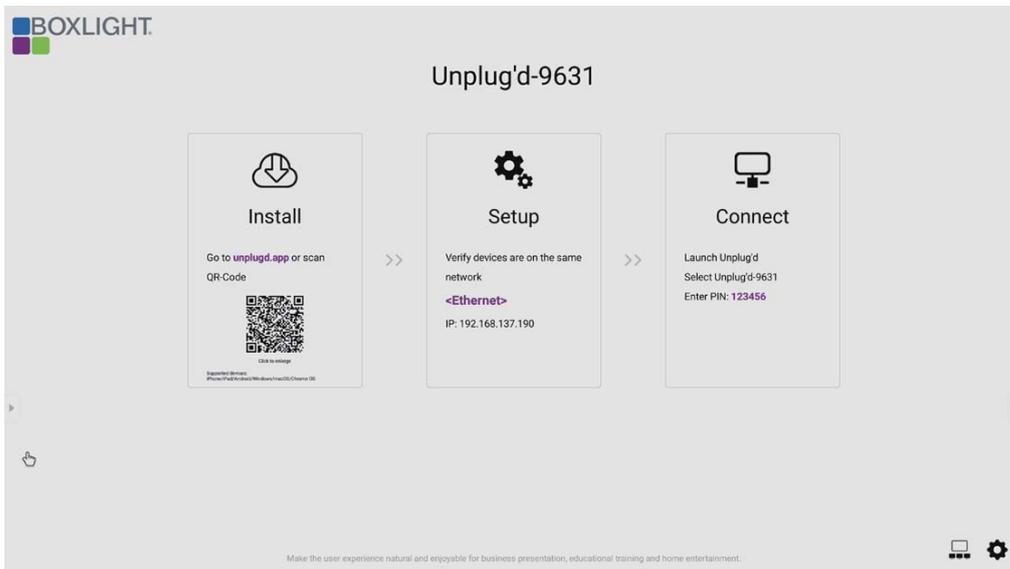
6.2 How to connect with Network:

Click the network icon  or "setting" to check.

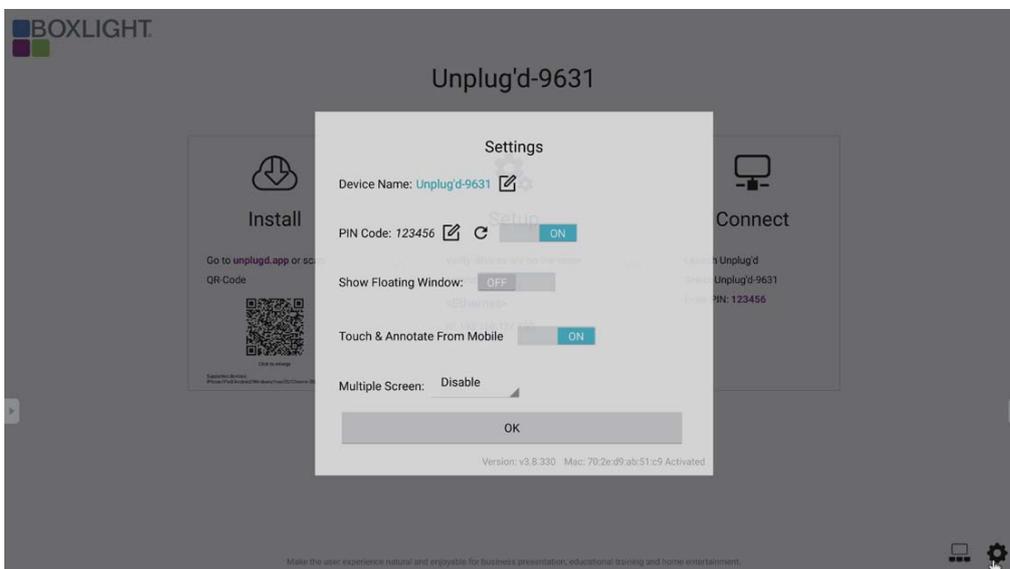
Android Function



After the network connect, click the Unplug'd icon will show as below:



You can resetting the device name , password and other setting.by down right icon.



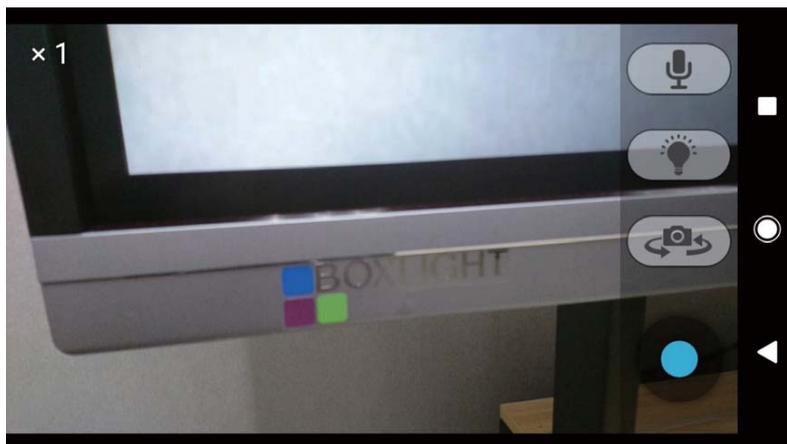
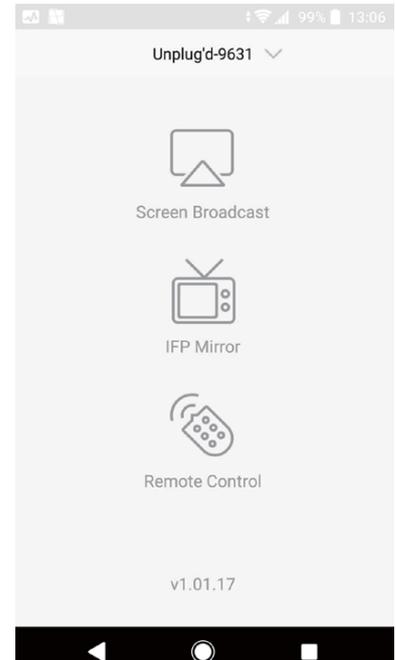
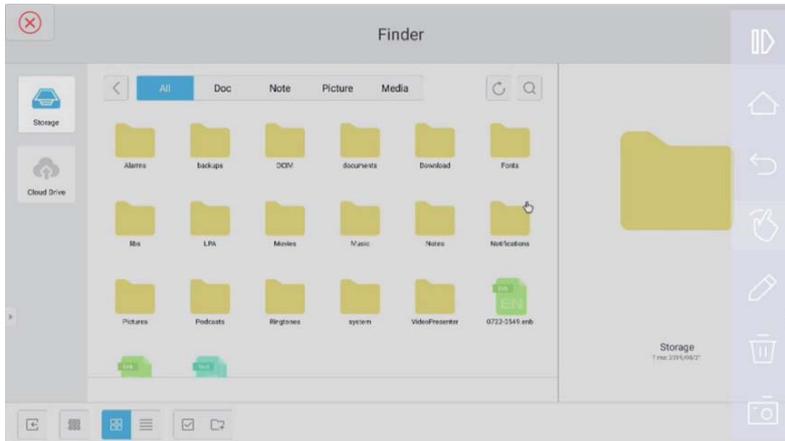
Android Function

6.3 Connect with mobile device.

Download the Unplug'd App from Apple Store or Play Store,

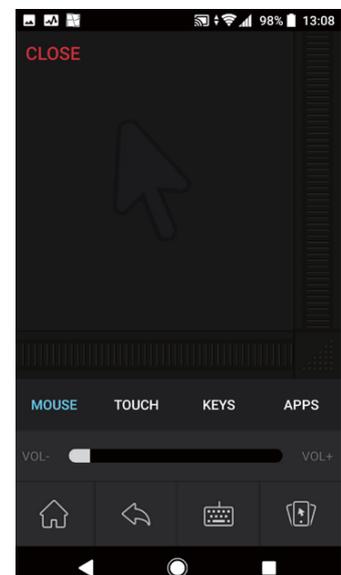
Before use, please make sure that the mobile device on the same LAN(Network) with IFP.

- Screen Broadcast: Projection your mobile device's screen to Screen.
- IFP Mirror: the IFP screen will show on your mobile device. You can control the IFP by your mobile device.



(Camera function)

- Remote Control: You can use your mobile device like a remote control.

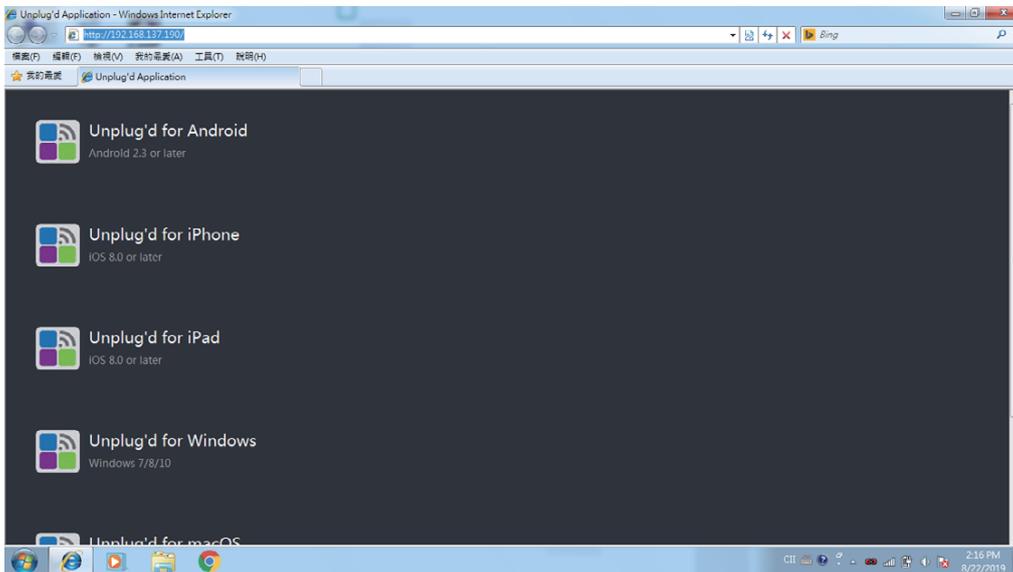


Android Function

6.4 Connect with laptop.

Download the Unplug'd software according to IP address on the screen.

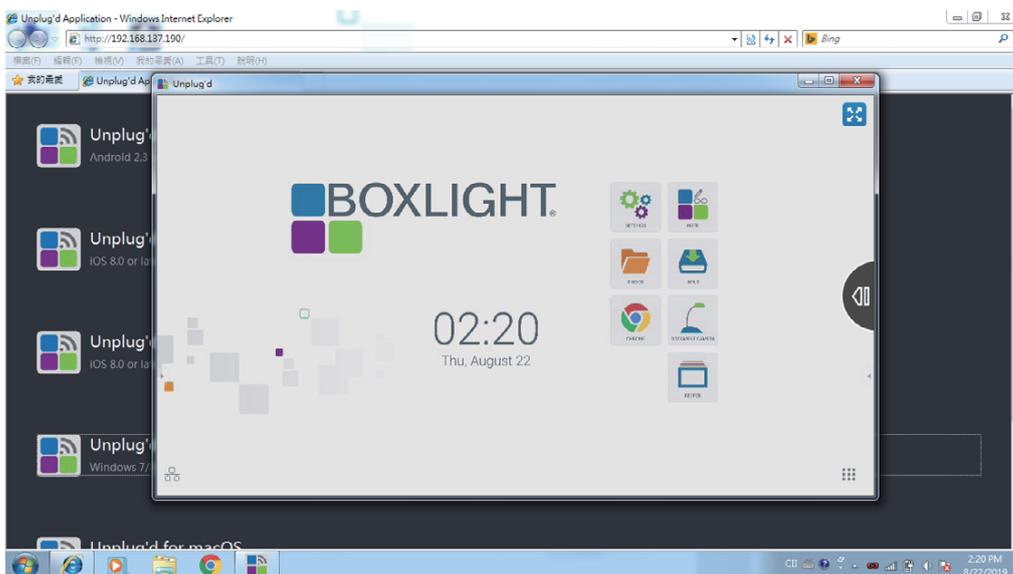
Before use, please make sure that the mobile device on the same LAN(Network) with IFP.



Choose the software that you need. After installed the windows will show as below.



- Share Screen: Share your laptop to IFP screen.
- Screen Mirror: Mirror the IFP Screen to your laptop screen.



(Screen Mirror)

Android Function

7. Screen Freezing

To pop out the screen freezing tools. You can freeze the screen, and at the same time zoom in or out the current screen.



- Zoom in click : to zoom in the current screen.
- Zoom out Click: to zoom out the current screen.
- Return Click : to return to the original size of the screen.
- Exit : to exit the screen freezing.

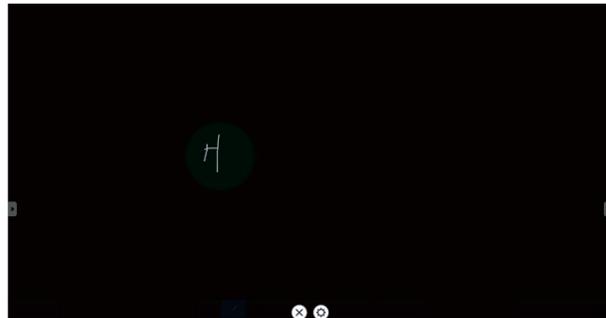
8. More Tool Function

To pop out the tool choice box, including spotlight, count down, stop watch, and air class.

- Sport light 

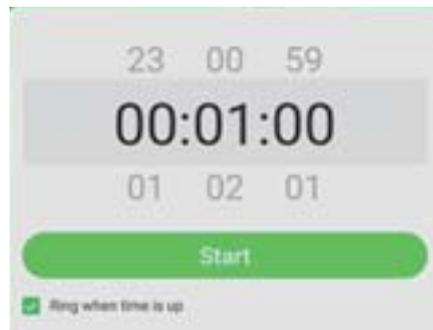
To open the spotlight, as shown in below picture. The spotlight can be used to make audience focus their attention on the location you need to emphasize.

Drag in the black area to move the location emphasized by the spotlight.



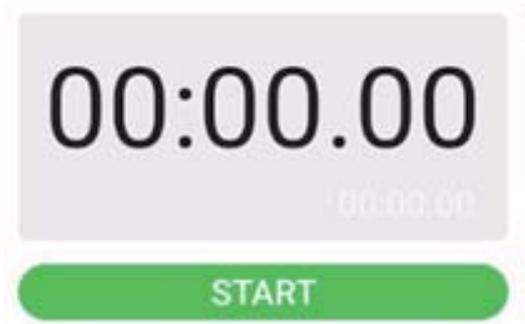
- Count Down 

To open Countdown, as shown in below picture. User can set time to count down.



- Stop Watch 

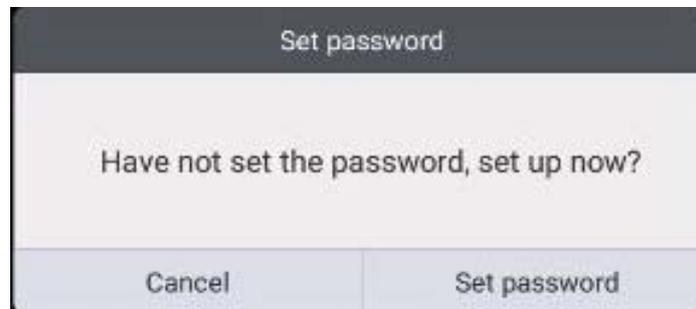
to start the stop watch. Such functions as stop watch, pausing the stop watch, continuing the stop watch, lap , and reset are included. When you touch the other area and the Stop watch will move to the bottom of the window. Click X button to exit the stop watch.



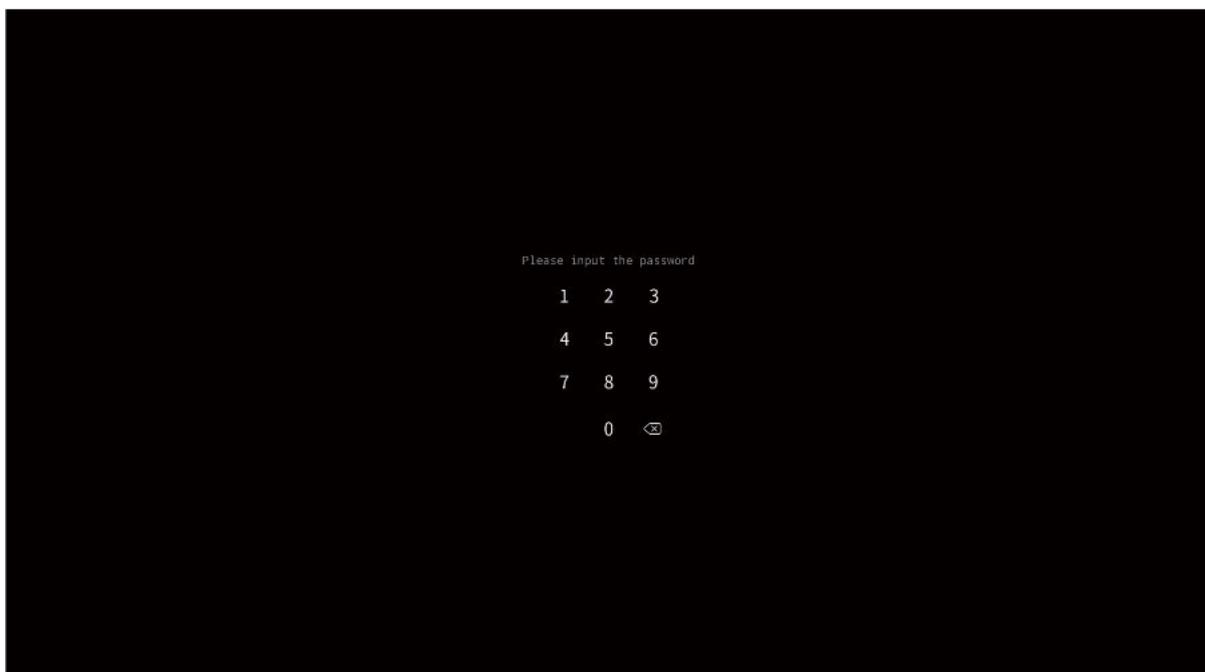
Android Function

Screen Lock

Click the  button, the set password page will appear if you have not yet set the password.



After setting the password, when press the screen lock function. The screen will show up as below:



It can't use it until enter the right password. It can use during the meeting or teaching and the data will not show up on the screen.

If you want to clean the password, please "Setting > Password". Before clean the password, it need to enter the current password again.
